For Research Use Only

# GABARAPL2-Specific Polyclonal antibody

Catalog Number:18724-1-AP Featured Product 13 Publications

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## Basic Information

Catalog Number:
18724-1-AP

Size:
150ul , Concentration: 450 ug/ml by Nanodrop and 320 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
BC005985

GeneID (NCBI):
11345

UNIPROT ID:
P60520

Full Name:
GABA(A) receptor-associated protein-like 2

Calculated MW:
14 kDa

Observed MW:
14 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:1000
IHC 1:20-1:200
IF/ICC 1:50-1:500

## Applications

Tested Applications:
WB, IHC, IF/ICC, FC (Intra), ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat

***Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0***

Positive Controls:

WB : COLO 320 cells, human brain tissue, mouse brain tissue, mouse spleen tissue, PC-3 cells

IHC : human heart tissue, human brain tissue

IF/ICC : Chloroquine treated HepG2 cells,

## Background Information

GABARAPL2 (also known as Golgi-associated ATPase enhancer of 16 kDa; GATE-16) was originally characterized as a factor essential for intra-Golgi protein transport. Later GABARAPL2 along with LC3 and GABARAP, were identified as the homologs of yeast ATG8 which is a unique ubiquitin-like protein essential for autophagy. When induced GABARAPL2 is first digested by ATG4 family enzymes to become its mature form: GABARAPL2-I, later conjugated to PE lipid as lipidated form: GABARAPL2-II. The lipidated form migrates faster than its mature form on SDS-PAGE gel. GABARAPL2 is strongly expressed in the brain. This antibody is specific to GABARAPL2. It has no cross-reaction to other GABARAP protein.

## Notable Publications

| Author | Pubmed ID | Journal | Application |
|---|---|---|---|
| Naoya Sakaguchi | 33042141 | Front Immunol | WB |
| Clémence Taisne | 30872707 | Sci Rep | |
| Hye Young Ryu | 33654220 | Exp Mol Med | WB |

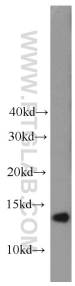
## Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

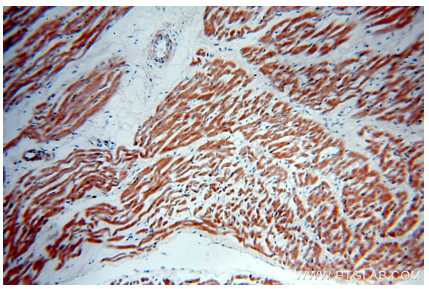
*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

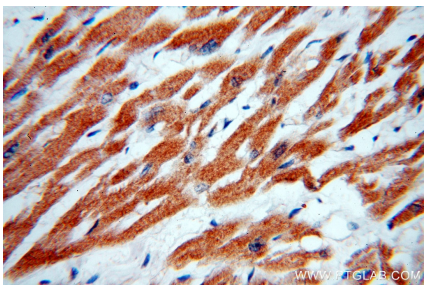
## Selected Validation Data



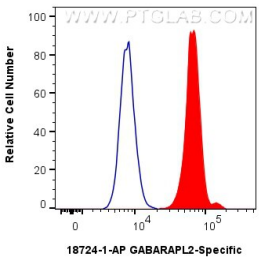

COLO 320 cells were subjected to SDS PAGE followed by western blot with 18724-1-AP (GABARAPL2-Specific antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



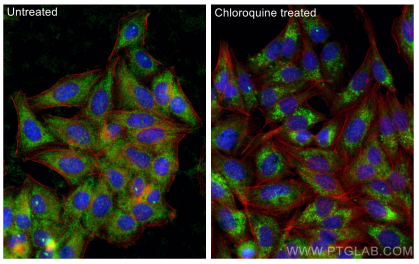
Immunohistochemical analysis of paraffin-embedded human heart using 18724-1-AP (GABARAPL2-Specific antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human heart using 18724-1-AP (GABARAPL2-Specific antibody) at dilution of 1:50 (under 40x lens).




1x10^6 HepG2 cells were intracellularly stained with 0.25 ug GABARAPL2-Specific Polyclonal antibody (18724-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).




Immunofluorescent analysis of (-20°C Ethanol) fixed Chloroquine treated HepG2 cells using GABARAPL2-Specific antibody (18724-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).